

Dimensions of Level 1 2 and 3 Electrical Distribution Boxes on Construction Sites



AI Overview

Level 1, 2, and 3 distribution boxes form a three-tier protection system on construction sites, with Level 1 being the primary, Level 2 the secondary, and Level 3 the tertiary distribution box, each with progressively smaller size and specific electrical components.

Overview of Distribution Levels

Level 1 (Primary Distribution Box)
Function: Receives three-phase power from the transformer and distributes it to secondary boxes. It is not intended for direct use by construction equipment.
Components: Main circuit isolation, main circuit breaker, main fuse, shunt isolation, and shunt leakage protection switch.
Design: Typically larger in size to accommodate copper busbars, metering systems, and multiple circuit breakers. Front door opens for access, bottom-in and bottom-out wiring, and rainproof top for outdoor use. Suitable for high-voltage input (0.4kV from transformer) and heavy-duty construction site applications.

Level 2 (Secondary Distribution Box)
Function: Receives power from Level 1 and distributes it to temporary power points or Level 3 boxes. It is used for three-phase power equipment.
Components: Main circuit general isolation, main circuit fuse, circuit breakers, shunt isolation, and shunt fuses.
Design: Medium-sized box with inner and outer doors, plastic-sprayed exterior, and rainproof top. Designed for safety, aesthetics, and outdoor construction site conditions.

Level 3 (Tertiary Distribution Box)
Function: Provides mains electricity (220V single-phase) to individual electrical equipment or units.
Components: Isolation switch and leakage protector.
Design: Smallest of the three levels, installed under secondary boxes or near equipment. Focused on final distribution and protection for individual devices.

Typical Dimensions and Considerations
 While exact dimensions vary by manufacturer and project requirements, general guidelines for construction site distribution boxes...

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Distribution box catalogue | PDF

This document provides specifications for various distribution boxes including dimensions, mounting sizes, and number of ways. It includes specifications for TOP-TS, TOP-TF, TOP-LS, TOP-PS, TOP

The difference between the first,second,and third levels of ...

Remember that the leakage protection switch is the last one, and connect the electrical appliance from the leakage protection switch. The requirements for the distribution box can be based

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26 05 33.16 Boxes for Electrical Systems

Specifier Notes: This product guide specification is written according to the Construction Specifications Institute (CSI) 3-Part Format as described in MasterFormat® 2020 Edition.

Requirements for distribution box at construction site

2□ The rated value and action setting value of the main distribution box shall be compatible with the rated value and action setting value of the branch switch. 3□ The electrical components and leakage

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Key Points Of Installation And Collocation Of Distribution Box In ...

1. The power distribution system at the construction site shall be distributed in different levels. The main distribution box (or distribution room) shall be set up. The distribution box shall be set below the main

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Learn standard electrical box dimensions for outlets, switches, and junction boxes. Compare sizes, depths, volume, and clearance for safe

Junction Box, 15 Sizes Selection Box, Waterproof IP65 Junction Box,

Widely used: electrical junction box is mainly used for indoor and outdoor electrics, communications, fire equipment, steel melting, oil chemical industry, electronics, electrical energy, railway, construction

What are the primary, secondary and tertiary distribution boxes?

Difference between level I, level II and level III of distribution box. Primary distribution box: three-phase power supply, ground wire and zero wire are introduced from the transformer. Secondary distribution

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